DEPARTMENT OF HEALTH - WASTEWATER BRANCH INDIVIDUAL WASTEWATER SYSTEM (IWS) - SITE EVALUATION / PERCOLATION TEST

Date / Time:		Test Performed by:		
Owner:		TMK: (. - :	
Elevation:		feet		
Depth to Groundwater Table:				
Depth to Bedrock (if observed):		feet below grade		
Diameter of Hole:		inches		
Depth to Hole Bottom:		feet below grade		
Depth, inches below grade		Soil Profile (color, texture, other)		
PERCOLATION READ Time 12 inches of water Time 12 inches of water	to seep away:			
1 hour. Percolation tests water drops at leminutes record to	s in no-sandy soils, preseast every 10 minutes fo	oaked the test hole for at least 4 or 1 hour of time for the first 6 is drops at lest every 30 minutes	s at least every 10 minutes for at least 4 hours. Recorded time intervals and nches to seep away in greater than 30 for 4 hours or until 2 successive	
Time Interval		Time Interval		
			-	
Percolation Rate (time/fin	nal water level drop):	minutes/inches		
fact that above site information provisions of Chapter 11	nation is accurate and the -62, "Wastewater System	nat the site evaluation was cond ms" and the results were accept	rcolation test results, I attest to the lucted in accordance with the table. I also attest that three feet of indwater table or any other limiting	
Engineer's Signature/Stamp			Date	

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FALLING HEAD TEST PROCEDURE

- 1. Preparing Percolation Test Hole(s)
 - Dig or bore a hole, four to twelve inches in diameter with vertical walls to the approximate depth of the soil absorption system (bottom of trench or bed).
 - 2. Scratch the side wall and bottom to remove any smeared soil and remove loose material.
 - 3. Place one inch of coarse sand or gravel on bottom.
- B. Determine Percolation Rate
 - 1. Place twelve inches of water in hole and determine time to seep away. Record this time on the site evaluation form.
 - 2. Repeat step B.1. above. Also record this time on the site evaluation form.
 - 3. If the time of the second test is less than 10 minutes go to Step C, if not skip to Step D.
- C. Sandy (granular) Soils
 - 1. Establish a fixed reference point, add water to six inches above gravel and measure water level drops every ten minutes for 1 hour.
 - 2. Use a shorter time interval if first six inches seeps away in ten minutes or less.
 - 3. Refill when necessary, do not exceed six inches of water.
 - 4. Record time intervals and water drops on site evaluation form.
 - 5. Use final water level drop interval to calculate percolation rate. (Step E)
- D. Other Soils (non-granular, e.g. silt, loams & clays)
 - 1. Maintain at least twelve inches of water in the hole for at least four hours to presoak soil.
 - 2. Do not remove water remaining after four hours.
 - 3. Permit soil to swell at least 12 hours. (Dry clayey soils should be soaked and permitted to swell for longer periods to obtain stabilized percolation rates).
 - 4. After swelling, remove loose material on top of gravel.
 - 5. Use fixed referenced point, adjust water level to six inches above gravel and measure water level drop.
 - 6. If the first six inches of water seeps away in less than 30 minutes, measure water level drops every ten-minutes and run for one hour.
 - 7. If the first six inches of water takes longer than 20 minutes to seep away, use 30 minute time intervals for four hours or until two successive drops do not vary by more than one-sixteenth inch (stabilized rate).
 - 8. Refill with water only when necessary, but no adjustment during last three readings except to the limit of the last drop. Do no exceed six inches of water.
- E. Use final drop interval to calculate percolation rate and record on site evaluation form:

Time Interval	
Water Level Drop	= Percolation Rate